

Collection no. 173

Key & Balderson

GLAMIS

DUPLICATE

CARBON BOOK

(Octavo Size)

Swans Head area, N.S.W.
13-17. XII. 1971

100 Leaves in Duplicate

NUMBERED

Flexiflat

THERMO-PLASTIC BOUND

Collection no. 173

Swans Head area

Key + Balderson

N.S.W. 1

13-17. xii. 1971

[Plant identifications by
Herb. Austr. For details see
Key + Balderson (1972) - Aust. J.
Zool. 20: 411-22.]

13/12.

1698.2. Swans Head. Left on Woodburn road.

699.7. (= 991.7 of previous trip). SW. corner

Poa annua *pediculus*, *Urtica erythrorhynchos*
of aerodrome reserve. Walked into

reserve at right angles to road for

ca. $\frac{1}{2}$ Km, passing through heath with

2 geocalous *Xanthorrhoea* & various

sedges (including curly), then a

~~Callistemon~~ swamp with sedges to 3 ft &

on to its margin at a patch of *Poa annua*

ericaefolia with microphyllous shrubs.

acaulous *Xanthorrhoea* & sedges.

incl. curly. ^{3♂, 1♀} *P. pediculus* both on

margin of swamp & margin of *Banksia*.

1700.0. Road from end of airstrip enters

on right.

1700.2. Heath remnant on left, with

Poa annua *musgrauvi* (f.), *Pycnostictus serratus*
curly sedge prominent. All *Poa annua*

taken on a tussocky grass to 9 in

in an area reclaimed from sand mining

ca. 150 yd from road (*P. musgrauvi*) 3 juv.
Return.

1702.3. Swans Head: Return on Woodburn road.

1704.4. = 1700.2. Collected ca. 800 yd on ^{*Pedicularis pedestris*} right of road. Margin of swamp with yellow broad-leaved *Callistemon* to 3ft + sedges to 2ft and slight rise with microphyllous shrubs *Banksia* spp. ^{to 3ft} ₁₀ *Gahnia* sp. & curly sedge. (*P. pedestris*)

1705.3. Timber. road in from right. Turned round.

1705.9. Heath on left ^{to 2ft} immediately adjacent to road. Curly sedge + other sedges with microphyllous shrubs + some acaulescent *Xanthorrhoea*. ^{10⁷, 2♀} (*P. musgravei*).

1706.15 Heath on left 1-2ft, immediately ^{*Pedicularis pedestris*} adjacent to road. Rather open *Banksia* *menziesii* to 3ft, with occ. yellow *Callistemon* + several upright sedges ^{10⁷} mainly to 1ft. (*P. pedestris*).

1706.25 = 1700.2.

104/12.

1709.1 Evans Head depart on Woodburn road.

1709.4 Returner road intersection.

1709.7 Cemetery turn-off

1709.9 = 990.9 of previous trip.

1710.6 = 699.7. Collects in heath fringe.
Pedmura musgravei, morabine sp. P101, *Mingania*
 to extensive mixed area on left of
~~Wanna~~ *Gonocaca australis*, *G. opomaloides*
 road. This runs ca SSE. from stopping
 point on road 9 is fringed to E by
Banksia spp. to 8ft + eventually by
 mes. Usual mixture of microphylls
 shrubs 1-3 ft. with woolly + other
 sedges + *Xanthorrhoea* spp. ♀ *musgravei*
 ca. 400 yd from stopping point, ¹⁰ _{100 mus.}
^{Sky E} ~~1200~~ 1200 yd Sky W.

1711.35 Culvert opposite pump. Marked
 heath remnant *Atractomorpha similis*
 between power pole each side. *Pedmura*
 nymphs. Return to Evans Head.

1716.65 = 1711.35.

1716.7 Heath remnant at power pole
Pedmura pedestris

10

no. 139. (*P. pedestris*)1716.8 rd off to rt. to sand mine plant1717.05 house on lt1717.2 bend in rd.1717.35 turned off rt.1717.5 return1717.7 back on main rd. turned rt1717.9 large house on rt.1717.95 Woodburn 3 mi. pg1718.9 rd. bends rt.; house on each side of bend on lt; return1720.0 edge of timber1722.4 turned lt. onto Rio Torro beach rd.1723.1 report; return1723.9 turned lt.1724.25 T-junctn. ^{broadwater road.} turned lt. on 11727.9 Turned round. Shallow swamp*Paidum pedestris*
with? *Melaleuca* sp. regrowth from fire
to 2 ft. dense sedges (2 or 3 spp.) to 18 in.
arborescent *Xanthorrhoea* sp.

10♂, 1♀

(*P. pedestris*)

- 1729.3 Track off on right.
1729.8 Track off right to treatment works
1732.3 Rejoined Woodburn Rd. after
 passing Illawong Hotel
1732.7 S. side of bridge over Evans Creek
 turned right
1732.9 Entrance to fauna & flora reserve
1734.2 End of road; return
1735.6 = 1732.7 Turned rt
1736.0 Turned rt
1736.2 Turned rt
1737.1 Surf beach lookout; end of rd; return
1738.1 turned off left
1739.8 locked gate into prohibited area
 return
1739.9 collecting site at margin of
 swamp on earlier trip (26627.4, trip)
1741.4 turned left onto bitumen
1742.0 = 1732.7 (S. end of bridge)
15/12.
1742.6 Swans Head depart.

1745.55 : Return. 107 3♀ (1 W of pole 138)
Pseudomura musgravi, *P. pedestris*, *musgraver*
 Collected *P. pedestris*, *musgraver*

1746.2. Between poles 138 & 139. 1
Brachymorpha similis, *Eumecistes griseus* (♂)

1746.7. Road in from airstrip. Return to
 Swans Head.

1749.2. Wisted miles. Swans Head defunct
 on Woodburn Rd.

1749.4 Turned right onto Bradwater Rd

1749.7 T-junction; turned left

1751.7. Road to treatment plant in
 from left. left car & took a compass
 direction due west. *Pseudomura*
 found at following points:

(1) just before crossing of a narrow
Pseudomura pedestris
 dirt road, ca. 300 yd from starting
 point. Edge of swampy area with
 yellow *Callistemon* & upright sedges.

207, 1♀
 (*P. pedestris*).

(2) Ca. $\frac{3}{8}$ mi. from start; bearings as
Pseudomura musgravi, *morabae* sp. P101
 follows: 139° to airport hangar, 307°
 to a hill with 2 large concrete
 tanks, 124° to summit of most

easterly hill of Evans Head. Margin
of small low sand rise bearing
dense Banksia sp. to ca. 6 ft. Heath
with abundant curly sedge &
acaulescent Xanthorrhoea to 2 ft.,
other small soft sedges to 9 in. (*P.*
^{1♀}*nunsgrauei*). (Other insects taken
earlier).

(3) 300 yd further on. Swamp with
Pseudomya pidespis
cream broad-leaved Callistemon to 3 ft
with dense sedges to 2 ft. (*P. pidespis*)
^{10♂, 1♀}
Ca. $\frac{1}{2}$ mi. from sand mining plant.

Returned.

16/12.

1756.8 Poles 138-9. Mapped area with
Austroasis proxima
capture sites & vegetation. Counted
curly sedge by base of tussock within
1 ft of straight-line transects, 2 Key & 2
Balderson running parallel to road
within belt sampled for *Pseudomya*.
Counts made in 20-yd sections.

numbered 1-6, starting 2 yd short of pole 138. Results (entered on map): 77, 44, 22, 5, 1, 0 for sections 1-6. In addition, it was noted that the cream broad-leaved? *Callistemon* was frequent only in section 6, & the narrow-leaved red *Callistemon* only in 5 & 6. Took samples of all prominent plants in sections 1/2 & 5/6 separately. Return 1756. 83. Pole 139.

1759.1. Evans Head P.O.

1759.9. Evans Head dep. at Broadwater road.

1762.8. Road off to left. On right is a low sandhill with *Pseudomora petersii*, *P. musgravei*, *Morabaine* sp. P101 ~~*serotifolia*~~ *serotifolia* to 6 ft open, microphyllous shrubs & scattered curly sedge, which leads down to table-drain alongside road the drain being made along line of contact between hill vegetation & lower area to left of road leaving

B. encifolia 3-4 ft + dense aculeament
Xanthorrhoea. Sketch map of distribution
 of collecting points of *P. ^{2♂, 2♀}pedestris* & *P. ^{1♂}musgravei* attached. Separation between
 the point for *musgravei* & the nearest
 point for *pedestris* is (1240) is the
 least of all the separating distances.
 The table-drain has some fringing
 upright sedges clearly arising from
 the alluvial conditions. Turned down
 road to west.

1763.7. Sewage treatment works. Return

1764.0. Turned right along "Treatment
 works" road.

1764.2. Turned right on to Broadwater road.

17/12.

1768.25. Evans Head P.O. depart.

1768.4. Turned right on Broadwater road.

1768.7. Turned left into Beach St.

1770.7. Road off to left to treatment works.

1771.2. Second road off to left at sharp.

angle. (Treatment was visible at far end; bearing of road 155°).

1774.5. Bitumen crossing of high sand hill. Return.

1775.4. *Callistemon* ^{with upright sedges} swamp ^{on right},
^{*Podamura pedestris* (J.)}
 leading to low sandy rise. Recently
^{2 juv. 07}
 burnt. *P. pedestris* nymphs just above
 edge of swamp.

1775.8.

1777.9. Angled road off to right.

→ Contact zone between low sand hill with
^{*Podamura pedestris*, *P. musgravei*}
Banksia serrata ^{if in} to 4-5 ft, a *Xanthorrhoea*

with trunk, & several microphyllous
 shrub spp. to 2 ft + some curly sedge to
 1 ft; and swamp with yellow broad-leaves

Melaleuca quinqueveneria ^{*pauciphyllus*} & red *Callistemon* to 2 ft.

^{*Restio pallens* R. Br.}
 with mainly one sp. of upright ^{*restio*}
 to 18 in. The intervening zone of ca.

10 yd was rather uniform, free from
 shrubs + curly sedge, & bearing
^{*Lepidrodia interrupta* F. Muell.}
 mainly a soft sedge to 9 in. & an
^{section}

aculeate Xanthorrhoea. This zone
 was delimited on the up-hill side by
 the start of the shrubs, & on the swamp
 side by the upright restio, which gave
 mostly a sharp edge, coinciding almost
 with the upper limit of Melaleuca.
 24 pedestris, 19 muirgavii
 Collected Podium intensively, marking
 positions of all specimens with tags
 indicating species. These positions were
 then mapped with reference to an
 arbitrary line running approximately
 down centre of interlocking zone, &
 the limit of the upright restio was
 entered on this plan. Specimens taken
 Restiopallens restio of Lepidrodia interrupta restio
 of upright restio, soft clump
 Baumea muelleri (C. B. Clarke) S. T. Blake
 other plants of interlocking zone
 Melaleuca nodosa Sm., Baeckea stenophylla F. Muell.
 immediately above it (labelled pedestris
 habitat " & "muirgavii habitat"). Distances
 measured between muirgavii & pedestris
 in all cases where this was 5 ft or
 less.